CLIMATE VULNERABILITY MONITOR







COUNTRY PROFILE







THE MONITOR ASSESSMENT

The Climate Vulnerability Monitor provides a comprehensive national-level assessment of vulnerabilities and impact specifically related to contemporary climate change and carbon intensiveness. This 2012 Monitor assessment was commissioned by the Climate Vulnerable Forum and has been independently developed by DARA. It is grounded in leading and up-to-date scientific studies, research and data assimilated on the basis of an externally reviewed methodology. The assessment spans 34 indicators of impact/vulnerability: 22 for climate change ("Climate") and 12 for carbon intensiveness ("Carbon"). Estimates in human, economic and environmental terms are for 2010 and 2030. Vulnerability at country-level and by indicator is comparative to the 184 countries included in the assessment.

→ For the full report, data & additional info: www.daraint.org/cvm2 - cvm@daraint.org - +34 915310372



ECONOMIC NATIONAL LOSS TOTALS: YEMEN

ADDITIONAL ECONOMIC COSTS (NEGATIVE NUMBERS SHOW POSITIVE EFFECTS) - YEARLY AVERAGE

CLIMAIE CHANGE

2010 **1.4%**_{GDP}

2030 **2.8%**cpp

CARBON INTENSIVENESS LOSSES PER YEAR

2010 **0.8%**_{GDP} 2030 **0.6%**_{GDB}



HUMAN NATIONAL LOSS TOTALS: YEMEN

ADDITIONAL HUMAN IMPACTS (NEGATIVE NUMBERS SHOW POSITIVE EFFECTS) - YEARLY AVERAGE

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE +CARBON

2010 15,000

2030 25,000

👀 CLIMATE

🕽 CARBON

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **800,000**

2030 1,650,000

2010 500,000

2030 950,000

FULL COUNTRY ASSESSMENT: YEMEN

			VULNERABILITY LEVEL	ADDITIONAL LITY ECONOMIC COSTS (MILLION USD PPP)		ADDITIONAL MORTALITY		ADDITIONAL AFFECTED POPULATION (1000s)		OTHER VALUE 1*		OTHER VALUE 2*		_				
			2010 2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030					
		ENVIRONMENTAL DISASTERS													VULNERABILITY LEVELS:			
	(4)	DROUGHT		1	5									+ Acute+	+ High+			
		FLOODS AND LANDSLIDES	- +	35	250	1	1	7	25					_ Acute-	- High-			
		STORMS		25	200									- Severe+	Moder	ate		
		WILDFIRES												_	_	otc .		
		TOTAL		61	455	1	1	7	25					- Severe-	Low			
		HABITAT CHANGE																
	(BIODIVERSITY	+ -	150	1,250					-3,250	-6,500	30	100	+ = Upper tier	of vulnerabilitų	j level		
		DESERTIFICATION		-1	-1			-1	-5	-30	-55			= Lower tier	 = Lower tier of vulnerability level 			
		HEATING AND COOLING	- +	200	2,250					1,500	4,750	1,000	3,250					
		LABOUR PRODUCTIVITY		20	150					20	13			Environme	ntal disastors			
		PERMAFROST												-				
		SEA-LEVEL RISE		150	1,250			0	0	45	150			♠ Habitat ch				
سب		WATER		-10	-60				_	-0	-0			💮 🗨 Health imp	act			
CLIMATE		TOTAL		510	4,839			-1	-5					M Industry st				
	●	HEALTH IMPACT				400	0.50							middstry stress				
		DIARRHEAL INFECTIONS	+ +			400	850	0										
		HEAT AND COLD ILLNESSES	+ -			200	450							CLIMATE =				
		HUNGER	+ +			1,250	1,500	1	1						o Climate Char	nge		
		MALARIA AND VECTOR-BORNE				80	95	20	25					CARBON =				
		MENINGITIS	- +			150 2.080	300	0 21	0 27						o Carbon Inten	siveness		
		TOTAL				2,080	3,195	21	21									
		INDUSTRY STRESS AGRICULTURE		100	800										OTHER	OTHER		
		FISHERIES		100	800										VALUE 1	VALUE 2		
		FORESTRY													Contraction	Decline in		
		HYDRO ENERGY												BIODIVERSITY	of biological zones (km²)	biological		
		TOURISM		30	250										(cumulative)	richness		
		TRANSPORT		30	230									DESERTI-	Additional land			
		TOTAL		130	1,050									FICATION	degraded (km²)			
		CLIMATE TOTAL		699	6,344	2,081	3,196	28	46						(cumulative)			
		SEMMATE TOTAL		000	0,0	_,00.	0,100							HEATING &	Change in energional (GWh))y		
CARBON	_	ENVIRONMENTAL DISASTERS												COOLING	load (GWh)			
		OIL SANDS													Share of			
		OIL SPILLS		10	30					200	200			LABOUR PRODUCTIVITY	workforce particularly			
		TOTAL		10	30									PRODUCTIVITI	affected (%)			
	•	HABITAT CHANGE												CEA LEVEL	Net loss of			
		BIODIVERSITY		15	100					5	10			SEA-LEVEL RISE	land (km²)			
		CORROSION			1										(cumulative)			
		WATER												WATER	Loss in water runoff 2030			
	!	TOTAL		15	100.5									WAILK	(km³)			
	•	HEALTH IMPACT													Tonono bosto			
		AIR POLLUTION				1,750	4,000	20	50					OIL SANDS	Tonnes toxic waste (1000s)			
		INDOOR SMOKE	+ +			10,000	20,000	500	900						110010 (10000)			
		OCCUPATIONAL HAZARDS				20	30	3	5					OIL SPILLS	Gallons oil			
		SKIN CANCER				15	55	0	0					OIL SPILLS	spill (1000s)			
		TOTAL				11785	24085	523	955						Deelies is			
	(X)	INDUSTRY STRESS		40	250									BIODIVERSITY	Decline in biological richne	!SS		
		AGRICULTURE		-10	-350													
		FISHERIES		10	E0.									Volume of WATER water to treat				
		FORESTRY TOTAL	-	10 0	50 -300									-7711-111	(millions m³)			
		CARBON TOTAL		25	-300	11,785	24,085	523	955									
		CARBON TOTAL		25	-170	11,703	24,000	JZJ	333									